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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/088,330	12/30/2003	Thomas J. Good	10455-1US	4637
7590 01/19/2006		EXAMINER		
Jeffrey G Sheldon			KIM, SUN U	
Sheldon & Mak				
9th Floor			ART UNIT	PAPER NUMBER
225 South Lake Avenue			1723	
Pasadena, CA	91101		DATE MAILED: 01/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/088,330	GOOD ET AL.				
Office Action Summary	Examiner	Art Unit				
	John Kim	1723				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 30 De	Responsive to communication(s) filed on <u>30 December 2003</u> .					
<i>-</i>	<del>/ -</del>					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on 14 March 2002 is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	anniner. Note the attached Office	Action of form PTO-152.				
Priority under 35 U.S.C. § 119	-					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) LI Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (P10-948)   Notice of Draftsperson's Patent (S) (PT0-1449 or PT0/SB/08)		atent Application (PTO-152)				
Paper No(s)/Mail Date <u>5/10/04</u> .	6) Other:					

Application/Control Number: 10/088,330 Page 2

Art Unit: 1723

1. Claims 1, 12 and 17 are objected to because of the following informalities: "the lower surface" on line 22 of claim 1, line 21 of claim 12 and line 23 of claim 17 should be corrected to "the bottom surface". Appropriate correction is required.

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 7, 16, 19 and 26-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Recitation of "the upper mesh flow distributor" on lines 1-2 of claim 7 lacks a positive antecedent basis. Claim 16 is indefinite for failing to particularly point out that "the upper mesh flow distributor" is the one that distribute liquid sample uniformly across the top surface of the extraction media layer and not "the upper compression layer" on line 35. Recitation of "the microcolumn" on line 3 of claim 19 lacks a positive antecedent basis. Claims 26-28 are indefinite for failing to particularly point out what is considered a thin layer. How thin is considered thin in a layer?
- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claim 26 is rejected under 35 U.S.C. 102(e) as being anticipated by Pieper et al (US Pat. No. 5,391,298). Pieper et al teach a container (20, 22) having a thin layer of microparticulate

Application/Control Number: 10/088,330 Page 3

Art Unit: 1723

extraction media (40) supported by upper and lower sheet (42, 44) (see figures 2-3; col. 4, line 7 – col. 6, line 19).

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-5, 9-11, 17, 21, and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mehl (US Pat. No. 4,774,058) in view of Markell et al (US Pat. No. 5,279,742). Mehl teaches method of using a filter for separating fluid samples comprising a microcolumn (12), a thin extraction media of particles (42) made of silica which are retained by upper and lower compression layers (36, 38, or 44) made of glass fibers which inherently have a pore size less than the particle of the extraction media to retain particles (see figures 4-7; col. 2, lines 9-16; col. 3, lines 37-47; col. 4, line 61 – col. 5, line 55). Mehl also teaches that thickness of disc is 0.4 mm and the diameter of disc is 4 mm and such specification of disc meets the claimed ratio of the effective diameter of the extraction media layer to the thickness of the layer (see col. 3, lines 37-47; col. 4, lines 61-64). Claims 1-5, 9-11, 17, 21 and 24-25 essentially differ from the method and apparatus of Mehl in reciting that the extraction media has a particle size of less than 20 microns. Markell et al teach an extraction media disk comprising particles having a size less than 20 microns (see col. 8, line 27 – col. 10, line 11). Incorporating particles having a size less than 20 microns in the extraction media of Mehl would have been obvious at the time the invention was made since such particles are known to be used for extraction process as taught in Markell et al.

Application/Control Number: 10/088,330

Art Unit: 1723

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

Page 4

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 1-8, 11-13, 21-22 and 25 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 4-7, 9-10, 12 and 14 of U.S. Patent No. 5,595,653. Although the conflicting claims are not identical, they are not patentably distinct

Application/Control Number: 10/088,330

Page 5

Art Unit: 1723

from each other because claims 1, 4-7, 9-10, 12 and 14 of U.S. Patent No. 5,595,653 fully suggests claims 1-8, 11-13, 21-22 and 25 of the instant application.

- 10. Claims 9-10, 14-20 and 23-24 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 10, 15, 17 and 19 of U.S. Patent No. 5,595,653 (Good et al) in view of Pieper et al (US Pat. No. 5,391,298). Good et al teach microcolumn for extraction of analytes from liquids as disclosed in claims 1, 10, 15, 17 and 19. Claims 9-10, 14-20 and 23-24 of the instant application essentially differ from claims 1, 10, 15, 17 and 19 of U.S. Patent No. 5,595,653 in reciting that container or microcolumn having a substantially flat bottom wall with the exit substantially centrally located therein. Pieper et al teach a solid phase extraction column comprising a pressurizable container (22) having a substantially flat bottom wall with the exit (36) substantially centrally located therein (see figure 2; col. 4, line 61 col. 5, line 13). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the container or microcolumn of Good et al to have a substantially flat bottom wall with the exit substantially centrally located therein to be used as a pressurizable container for solid phase extraction process.
- 11. Claims 27 and 28 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Kim whose telephone number is (571) 272-1142. The examiner can normally be reached on weekdays from 8:30 A.M. to 5:00 P.M.

Art Unit: 1723

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached on (571) 272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John Kim
Primary Examiner
Art Unit 1723

J. Kim January 17, 2006